

**WEST****End of Result Set**

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11: Entry 1 of 1

File: DWPI

Dec 31, 1981

DERWENT-ACC-NO: 1982-10344E  
 DERWENT-WEEK: 198206  
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TITLE: Styptic compsns. contg. thrombin - stabilised with poly:ol

INVENTOR: ALTSHULER, J H

PATENT-ASSIGNEE:

ASSIGNEE

CODE

APPL MED DEVICES IN

MEDIN

PRIORITY-DATA: 1981US-0255953 (April 20, 1981), 1980US-0164821 (June 30, 1980)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
FR 2495375 A	December 31, 1981		002	
CA 1170570 A	July 10, 1984		000	
DE 3112926 A	July 22, 1982		000	
DE 3112926 C	December 12, 1985		000	
GB 2081090 A	February 17, 1982		000	
GB 2081090 B	June 20, 1984		000	
JP 57039849 A	March 5, 1982		000	
JP 63149510 B	October 4, 1988		000	
US 4363519 A	December 14, 1982		000	

APPLICATION-DATA:

PUB-NO	APPL-DATE	APPL-NO	DESCRIPTOR
GB 2081090A	June 24, 1981	1981GB-0019421	
JP57039849A	June 30, 1981	1981JP-0100723	

INT-CL : A61K 31/04; A61K 37/46; A61D 8/00

ABSTRACTED-FR-NO: DE 3112926  
 BASIC-ABSTRACT:

Styptic compsns. for use in wound dressings comprise isotonic saline solns. contg. 40-100% w/v of thrombin (II) and 1%-5% wt.-% of a "totally hydroxylated" styrene-maleic anhydride poly:ol, e.g. styrene, maleic anhydride, sorbitol. Proprietary wound dressings comprise an absorbent material contg. with a soln.

11/15/81 11:11 AM

FR 2488378A

**EQUIVALENT-ABSTRACTS:**

A ready-to-use, storage stable bandage, compress or other bandaging material is produced by (A) impregnating an absorbent material with an aq. soln. contg. 50-2000 units thrombin per ml, isotonic amts. of NaCl and 10-50 wt.% of a fully hydroxylated, linear 3-6C alcohol, and (B) hermetically sealing the impregnated bandage into a sachet.

The soln. pret. also contains (a) 0.01-0.25 mol of an S-free, etherial amino acid, esp. lysine, and (b) 0.1-4.0 wt.% polyethylene glycol of mol. wt. 2500-6000. The alcohol is esp. glycerol and is present to 30 pts. vol. The bandage contains 25-250 units thrombin per cm<sup>3</sup> absorbent material.

**ADVANTAGE** - The bandage remains stable when stored for long periods at temps. to which a prepared coagulating material may be exposed to; the active substance remains fully effective during the storage. (7pp)

GB 1131090B

A coagulant adaptable for use as a dressing for wounds comprising a solution of 50-1000 units of thrombin per ml of an aqueous solution containing sodium chloride in about isotonic quantities and from 10-50% by weight of a straight chain 3 to 6 carbon fully hydroxylated polyol.

**TITLE-TERMS:** STYPTIC COMPOSITION CONTAIN THROMBIN STABILISED POLY OL**DERWENT-CLASS:** A96 B05 D22 P34**CPI-CODES:** A12-V01; A12-V03A; B04-B02C; B10-A07; B10-E04C; B12-A07; B12-H04; D09-C06;**CHEMICAL-CODES:**

Chemical Indexing M1 \*01\*

Fragmentation Code

M423 M431 M782 M903 P315 P342 Q262 R041 V802 V810

Chemical Indexing M1 \*02\*

Fragmentation Code

R4 H403 H483 H8 M280 M313 M321 M332 M343 M383  
M391 M416 M431 M620 M782 M903 M910 Q620 R041

Chemical Indexing M2 \*03\*

Fragmentation Code

P4 H405 H484 H8 K0 L8 L814 L816 L821 L833  
M2- M313 M401 M41 M444 M5- M581 M61 M611 M621  
M7- M813 M811 M81 R041**UNLINKED-DERWENT-REGISTRY-NUMBERS:** 0032U; 0113U; 0290U**POLYMER-MULTIPUNCH-CODES-AND-KEY-SERIALS:**

Key Serials: 0013 0231 1279 1588 2585 2766 3286

**WEST**

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Search Results - Record(s) 1 through 1 of 1 returned.

☐ 1. Document ID: JP 56039782 A

L1: Entry 1 of 1

File: JPAB

Apr 15, 1981

PUB-NO: JP356039782A

DOCUMENT-IDENTIFIER: JP 56039782 A

TITLE: STABILIZATION OF THROMBIN

PUBN-DATE: April 15, 1981

## INVENTOR-INFORMATION:

NAME

COUNTRY

SUGA, KAZUO

MAKI, AKEMICHI

HIBINO, MITSUGI

YOKOJIMA, TETSUYOSHI

## ASSIGNEE-INFORMATION:

NAME

COUNTRY

DAI ICHI PURE CHEM CO LTD

APPL-NO: JP54112454

APPL-DATE: September 4, 1979

INT-CL (IPC): C12N 9/96; A61K 37/48

## ABSTRACT:

PURPOSE: To stabilize a thrombin solution, by adding a monofunctional or polyfunctional water-soluble organic carboxylate.

CONSTITUTION: An aqueous solution with a weak alkalinity usually in pH 7&sim;9 is prepared from one or a combination of two or more of monofunctional or polyfunctional water-soluble organic carboxylates, e.g., sodium acetate, sodium citrate, sodium potassium tartrate, etc., and the solution is added to a thrombin solution.

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Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw Desc	Image
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Documents, starting with Document: **Display Format:**

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Search Results - Record(s) 1 through 2 of 2 returned.

☐ 1. Document ID: JP 56039782 A

L1: Entry 1 of 2

File: JPAB

Apr 15, 1981

PUB-NO: JP356039782A

DOCUMENT-IDENTIFIER: JP 56039782 A

TITLE: STABILIZATION OF THROMBIN

PUBN-DATE: April 15, 1981

INVENTOR-INFORMATION:

NAME

COUNTRY

SUGA, KAZUO

MAKI, AKEMICHI

HIBINO, MITSUGI

YOKOJIMA, TETSUYOSHI

ASSIGNEE-INFORMATION:

NAME

COUNTRY

DAI ICHI PURE CHEM CO LTD

APPL-NO: JP54112454

APPL-DATE: September 4, 1979

INT-CL (IPC): C12N 9/96; A61K 37/48

ABSTRACT:

PURPOSE: To stabilize a thrombin solution, by adding a monofunctional or polyfunctional water-soluble organic carboxylate.

CONSTITUTION: An aqueous solution with a weak alkalinity usually in pH 7~9 is prepared from one or a combination of two or more of monofunctional or polyfunctional water-soluble organic carboxylates, e.g., sodium acetate, sodium citrate, sodium potassium tartrate, etc., and the solution is added to a thrombin solution.

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Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw Desc	Image
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☐ 2. Document ID: JP 56039782 A

DERWENT INFORMATION LTD

DERWENT-WEEK: 198123

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TITLE: Thrombin soln. stabilisation - by addn. of water-soluble organic mono- or poly:(hydroxy)carboxylic acid salts

PATENT-ASSIGNEE:

ASSIGNEE

CODE

DAIICHI KAGAKU YAKUHIIN KK

DAIIN

PRIORITY-DATA: 1979JP-0112454 (September 4, 1979)

PATENT-FAMILY:

PUB-NO

PUB-DATE

LANGUAGE

PAGES

MAIN-IPC

JP 56039782 A

April 15, 1981

000

INT-CL (IPC): A61K 37/48; C12N 9/96

ABSTRACTED-PUB-NO: JP56039782A

BASIC-ABSTRACT:

Stabilisation of a thrombin soln. used for diagnosis of thrombosis, various inflammations and hepatic disorders comprises adding 1 or more cpds. selected from water soluble organic mono- or polycarboxylic acid salts e.g. salts of polycarboxylic acids, (e.g. formic acetic, propionic or butyric acid) and mono- or polyhydroxycarboxylic acids (e.g. lactic malic acid, tartaric or citric acid).

An aq. soln. of the selected salt is pref. weakly alkaline (pH 7-9), so that if the aq. soln. largely skips this pH range, previous pH adjustment with NaOH or HCl is required. The stabiliser is used in an amt. of at least 1%, pref. at least 5%, based on the thrombin soln.

The stabilisation method is applicable to thrombin solns. of various qualities from mammals. It is partic. useful for stabilisation of a thrombin reagent for automatic analyser.

TITLE-TERMS: THROMBIN SOLUTION STABILISED ADD WATER SOLUBLE ORGANIC MONO POLY HYDROXY CARBOXYLIC ACID SALT

ADDL-INDEXING-TERMS:

HYDROXY THROMBOSIS INFLAMMATION HEPATO

DERWENT-CLASS: B04

CPI-CODES: B04-B02C3; B10-C02; B10-C04D; B10-C04E; B12-K04; B12-M06;

CHEMICAL-CODES:

Chemical Indexing M1 \*03\*

Fragmentation Code

V800 M430 P131 P332 M782 R000 M423 M902

Chemical Indexing M2 \*01\*

Fragmentation Code

J1 M210 M211 M212 M213 M214 M215 M216 M220 M221

M222 M223 M224 M225 M226 M231 M232 M233 M260 M281

M311 M312 M313 M314 M315 M316 M320 M280 J171 M620

M630 M430 M510 M520 M530 M540 M782 Q620 M416 M902

Chemical Indexing M2 \*02\*

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KMOC	Draw Desc	Image
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Terms	Documents
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Display

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Documents, starting with Document: 2

**Display Format:** FULL

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L4: Entry 197 of 209

File: JPAB

Jan 21, 1983

PUB-NO: JP358010522A

DOCUMENT-IDENTIFIER: JP 58010522 A

TITLE: PURIFICATION OF ANTITHROMBIN 3 BY DEACTIVATED THROMBIN GEL

PUBN-DATE: January 21, 1983

## INVENTOR-INFORMATION:

NAME

COUNTRY

TOMONO, SUKEKAZU

SAWADA, HIDEKO

## ASSIGNEE-INFORMATION:

NAME

COUNTRY

NIPPON SEKIJIYUUJISHIYA

APPL-NO: JP56108289

APPL-DATE: July 13, 1981

INT-CL (IPC): A61K 37/04; A61K 35/16

## ABSTRACT:

PURPOSE: To separate and to purify antithrombin III efficiently, by adsorbing specifically antithrombin III on deactivated thrombin gel from a mixed solution of plasma and protein in affinity chromatography method, followed by eluting it.

CONSTITUTION: In affinity chromatography, and elute having a pH of 6~8 and an ionic strength of 0~1, comprising a buffer solution, solution of neutral salt and a mixed solution of plasma and protein is brought into contact with the gel, and antithrombin III is specifically adsorbed on it. A gel obtained by linking chemically modified deactivated thrombin (e.g., antihydrothrombin) as an affinity ligand to a hydrophilic carrier is used as the gel. Antithrombin III is eluted with a solution of neutral salt in a pH of 4.0~5.5 or a substrate analog such as benzamidine, etc., so that it is separated and purified. Antithrombin III is one kind of glycoproteins participating in blood clotting.

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L4: Entry 184 of 209

File: USPT

May 26, 1987

DOCUMENT-IDENTIFIER: US 4668621 A


TITLE: Detecting blood clotting factors with immobilized fibrinogen and labeled fibrinogen

Brief Summary Text (28):

As thrombin inhibitors or activators, compounds which could find use include benzamidine, anti-thrombin III, serine protease inhibitors, .alpha..sub.2-macroglobulin, .alpha.1-antitrypsin, C-1 esterase inhibitor.

Detailed Description Text (8):

In the next assay, benzamidine and D-phenylalanyl-L-prolyl-L-arginine chloromethyl ketone (PPACK) were added to thrombin at the start of the assay. Addition of these inhibitors increased the concentration of thrombin required to obtain equivalent binding of peroxidase-fibrin to the solid phase. The percent inhibition can be calculated from the increased thrombin concentration required to obtain equivalent activity, as

**WEST** Generate Collection Print

L4: Entry 188 of 209

File: USPT

Feb 26, 1985

DOCUMENT-IDENTIFIER: US 4501731 A

TITLE: Treatment of disparate bleeding disorders with factor X zymogen

Detailed Description Text (32):

Factor V was isolated from fresh human plasma anticoagulated with CPDA-1 according to the method of Kane, et al. (J. Biol. Chem., 256:1002-1007, 1981). The final product had a specific activity of 75 units/mg. and showed a single high molecular weight band on SDS-PAGE. Activation of factor V was carried out in the following manner. The protein was desalted on an AcA-34 column equilibrated with 20 mM Tris-0.15M NaCl, pH 7.4 and 5 mM CaCl.sub.2 to remove the benzamidine. Factor V (200 microg/ml) was incubated with alpha-thrombin (2 units/ml.) for 5 min. at 37.degree. C. in 20 mM Tris-0.15M NaCl, pH 7.4 and 5 mM CaCl.sub.2. Thrombin was removed by adsorption onto benzamidine-Sepharose followed by filtration on a mini-column to remove the gel.

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L4: Entry 187 of 209

File: USPT

Dec 10, 1985

DOCUMENT-IDENTIFIER: US 4558010 A

TITLE: Recombinant deoxyribonucleic acid which codes for plasminogen activator and method of making plasminogen activator protein therefrom

Detailed Description Text (36):

Plasminogen activator activity was measured using a sensitive <sup>125</sup>I fibrinolysis assay modified from Unkeless et al. (J. Exp. Med., 137, 85-111, 1973). Rigid microtiter plates were coated with <sup>125</sup>I fibrinogen (2 ug, 10<sup>5</sup> cpm per well) and the fibrinogen converted to fibrin clots using plasminogen-free thrombin (0.1 units/well). Assays were conducted in a total volume of 70 ul containing 0.1 M Tris HCl, pH 8.1, 0.025 percent human serum albumin and 2.5 ug/ml plasmin-free plasminogen prepared by affinity chromatography on lysine Sepharose. The range of the assay was from 0.05 Ploug units/ml to 10 units/ml and could detect as little as 0.002 units. Since crude lysates of E. coli were inhibitory in this assay, transformant preparations were partially purified by ion exchange chromatography or affinity chromatography on benzamidine-Sepharose prior to assay (Table 1).